Applicant: Masahide Shima et al.

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In the claims:

Please amend the claims as follows:

Claims 1-12. (Cancelled)

(Currently Amended) A catalyst for use in the production of ethylene oxide, obtained by depositing a silver-containing catalytic component on a carrier set for in claim 1 obtained by adding an aluminum compound, a silicon compound, and an alkali metal compound to a low-alkali content α-alumina powder having an alkali metal content in the range of 1 - 70 m.mols/kg of powder and calcining the resultant mixture, the aluminum compound content as reduced to aluminum being in the range of 0 - 3 mols/kg of carrier, the silicon compound content as reduced to silicon in the range of 0.01 - 2 mols/kg of carrier, and the alkali metal content as reduced to alkali metal in the range of 0.01 - 2 mols/kg of carrier respectively in said carrier.

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- 2 14. (Original) A catalyst according to claim 13, wherein the amount of silver deposited is in the range of 1 30 wt.% based on the weight of said catalyst.
- 15. (Original) A catalyst according to claim 14, wherein an alkali metal is deposited as a reaction promoting agent in an amount in the range of 0.001 2 wt.%, based on the weight of the catalyst.
- 16. (Original) A catalyst according to claim 15, wherein said alkali metal is cesium or rubidium.
- Composite

 17. (Currently Amended) A method for the production of a catalyst to be used for the production of ethylene oxide, characterized by depositing a silver-containing catalytic component on a carrier set for in claim 1 obtained by adding an aluminum compound, a silicon compound, and an alkali metal compound to a low-alkali content α-alumina powder having an alkali metal content in the range of 1 70 m.mols/kg of powder and calcining the resultant mixture, the aluminum compound content as reduced to aluminum being in the range of 0 3 mols/kg of carrier, the silicon compound content as reduced to silicon in the range of 0.01 2 mols/kg of carrier, and the alkali metal content as reduced to alkali metal in the range of 0.01 2 mols/kg of carrier respectively in said carrier; and then calcining the resultant composite.

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are conducted

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(Original) A method according to claim 17, wherein said calcinations is offeeted 18. in the Presence of in the current of an inert gas at a temperature in the range of 400 - 700°C.

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19. (New) A catalyst according to claim 13, wherein the atomic ratio of said alkali metal content in said powder/said alkali metal content in said carrier is in the range of 0.0001 -0.8.

(New) A catalyst according to claim 13, wherein said alkali metal content in said α -alumina is in the range of 3 - 30 m.mol/kg of powder.

(New) A catalyst according to claim 13, wherein the secondary particle average particle diameter of said α -alumina is in the range of 50 - 100 μ m of powder.

(New) A catalyst according to claim 13, wherein the BET specific surface area of said α -alumina is in the range of 1 - 4 m²/g.

(New) A catalyst according to claim 13, wherein said aluminum compound content as reduced to aluminum is in the range of 0.01 - 2 mols/kg of carrier and said alkali metal compound content in the range of 0.02 - 0.5 mol/kg of carrier in said carrier.